

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

John W. Locher, et al.

Title:

SINGLE CRYSTALS AND METHODS FOR FABRICATING SAME

Application No.: 10/820,468

Filed:

April 8, 2004

Examiner:

Stephen J. Stein

Group Art Unit: 1775

Atty. Docket No.: 1075-BI4324

MS AMENDMENT COMMISSIONER FOR PATENTS PO Box 1450 Alexandria, VA 22313-1450

## INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the undersigned brings the patents, publications, applications or other information identified in the attached:

$\boxtimes$	Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449
	Other: n/a

to the Examiner's attention in the above-identified application. Citation of such information shall not be construed as:

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- 2. a representation that a search has been made, other than as described below; or
- 3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

For each item of information listed that is not in the English language, the undersigned has provided a concise explanation of the relevance, such as through (i) an English language abstract, (ii) an English language equivalent application, (iii) reference to discussion in the application, or (iv) if cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action that indicates the degree of relevance found by the foreign office.

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I hereby certify that this correspondence with the United States Postal Service wit Mail, in an envelope addressed to the Co	is being facsimile transmitted to the USPTO or deposited th sufficient postage as either First Class Mail or Express ommissioner for Patents on
Elise K. Dougherty Typed or Printed Name	E. K. Darcheur Signature

## STATEMENT UNDER 37 C.F.R. § 1.704(d)

May 2	If the a 29, 2000	above-identified application is an original application filed on or after:
		each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement.
		FEES DUE
	This I	nformation Disclosure Statement is being filed:
		within three months of the filing date of a national application or within three months of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is required.
		before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.
		during the period specified in § 1.97(c). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application not more than three months prior to the filing of this Information Disclosure Statement.
		during the period specified in § 1.97(c). Accordingly, the fee set forth in § 1.17(p) is required and provided as shown on the attached Fee Transmittal.
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Should any PTO fees be necessary for entry of this Information Disclosure Statement, the undersigned hereby authorizes the Commissioner to charge Deposit Account 50-2469.

Date 10/25/05

Respectfully submitted,

Jeffre Abel, Reg. No. 36,079

Attorney for Applicant(s)

TOLER, LARSON & ABEL, L.L.P.

5000 Plaza On The Lake, Suite 265

Austin, Texas 78746

(512) 327-5515 (phone)

(512) 327-5452 (fax)

PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

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Under the Paperwork ....
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Sheet 1

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of 2

Complete if Known				
Application Number	10/820, 468			
Filing Date	April 8, 2004			
First Named Inventor	John W. Locher			
Art Unit	1775			
Examiner Name	Stephen J. Stein			
Attorney Docket Number	1075-BI4324			

	U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (# known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
	A1	<sup>US-</sup> 4,402,786	09/06/1983	Little et al.			
	B1	US-					
	C1	US-					
	D1	US-					
	E1	US-					
	F1	US-					
	G1	US-					
	H1	US-					
	I1	US-					
	J1	US-					
	K1	US-					
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	M1	US-					
	N1	US-					
	01	US-					
	Pl	US-					
	Q1	US-					
	R1	US-					
	Sı	US-					

		FORE	<b>IGN PATENT DOCU</b>	JMENTS		
Examiner Initials*	Cite No.1	ite Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY			T <sup>6</sup>
	T1	GB 2,044,630 A	10/22/1980	RCA Corporation	· · · · · · · · · · · · · · · · · · ·	
	UI					
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	A2	Locher, J.W. et al., "The Production of 225*325 mm Sapphire Windows for IR (1 to 5 mu x m) Applications", DATABASE INSPECTION ONLINE, Vol. 5078, no. 1, 2003, pgs 40-46. (ABSTRACT ONLY)	
	B2	Novak, R.E. et al., "The Production of EFG Sapphire Ribbon For Heteroepitaxial Silicon Substrates", JOURNAL OF CRYSTAL GROWTH, Vol. 50, 1980, pgs 143-150.	
	C2	Antonov, P.I. et al., "A Review of Developments in Shaped Crystal Growth of Sapphire By the Stepanov and Related Techniquies", PROGRESS OF CRYSTAL GROWTH AND CHARACTERIZATION OF MATERIALS, pgs 63-122, 2002.	
	D2		
	E2		
	F2		
	G2		
	Н2		
	12		
	J2		

Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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